

SYSTEM FOR DETECTING START CODES IN MPEG VIDEO STREAMS
AND METHOD OF OPERATING THE SAME

ABSTRACT OF THE DISCLOSURE

There is disclosed systems for detecting start codes in MPEG
video streams in a digital video recorder (DVR), and methods of
operating the same. An exemplary MPEG decoder is capable of
decoding received bitstreams and generating PES packets. The MPEG
decoder includes a controller that detects start codes in the
received bitstreams, each of such codes having a three-byte start
code prefix and a one-byte start code value. The controller is
operable to (i) fetch a thirty-two bit word of a received
bitstream, (ii) determine whether a start code prefix and a start
code value are properly aligned within the thirty-two bit word, and
(iii) if not properly aligned within the thirty-two bit word,
determine whether the least significant byte of the thirty-two bit
word may be part of the start code prefix.